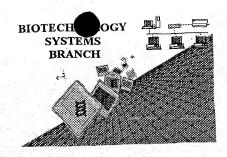
RAW SEQUENCE LISTING ERROR REPORT



CB

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/856,749

Source: Pg/09

Date Processed by STIC: 6/18/2001

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,

2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216. PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax) PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE <u>CHECKER</u> <u>VERSION 3.0 PROGRAM</u>, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW:

Checker Version 3.0

The Checker Version 3.0 application is a state-of the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 – 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.

Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO). Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

Checker Version 3.0 can be down loaded from the USPTO website at the following address: http://www.uspto.gov/web/offices/pac/checker

Raw Sequence Listing Error Summary

ERROR DETECTED	SUGGESTED CORRECTION SERIAL NUMBER: 09/85, 749
TTN: NEW RULES CASES:	PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE
1 Wrapped Nucleics Wrapped Aminos	The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."
2Invalid Line Length	The rules require that a line not exceed 72 characters in length. This includes white spaces.
3Misaligned Amino Numbering	The numbering under each 5th amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.
4Non-ASCII	The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.
SVariable Length	Sequence(s) contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
oatentIn 2.0 "bug"	A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.
7Skipped Sequences (OLD RULES)	Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence: (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading) (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) This sequence is intentionally skipped
	Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.
8Skipped Sequences (NEW RULES)	Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence. <210> sequence id number <400> sequence id number 000
Use of n's or Xaa's (NEW RULES)	Use of n's and/or Xaa's have been detected in the Sequence Listing. Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present. In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
0Invalid <213> Response	Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence
Usc of <220>	Sequence(s) missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section. (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)
2PatentIn 2.0 "bug"	Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.

AMC - Biotechnology Systems Branch - 06/04/2001

DATE: 06/18/2001

TIME: 16:20:37

PCT09

PATENT APPLICATION: US/09/856,749 Does Not Comply Input Set : A:\Dc-120.app Corrected Diskette Needed Output Set: N:\CRF3\06182001\1856749.raw sel p. 5 for Aplanatur 2 <140> CURRENT APPLICATION NUMBER: US/09/856,749 C--> 2 <141> CURRENT FILING DATE: 2001-05-24 2 <151> PRIOR FILING DATE: 1998-11-30 0 <110> APPLICANT: 0 <120> TITLE INVENTION: <130> FILE REFERENCE: 4 <160> NUMBER OF SEQ ID NOS: 10 6 <170> SOFTWARE: PatentIn Ver. 2.0 8 <210> SEQ ID NO: 1 9 <211> LENGTH: 5 10 <212> TYPE: DNA 11 <213> ORGANISM: Homo sapiens 13 <400> SEQUENCE: 1 14 aagat 16 <210> SEQ ID NO: 2 17 <211> LENGTH: 6 18 <212> TYPE: DNA 19 <213> ORGANISM: Homo sapiens 21 <400> SEQUENCE: 2 6 22 aaggat 24 <210> SEQ ID NO: 3 25 <211> LENGTH: 4438 26 <212> TYPE: DNA 27 <213> ORGANISM: Homo sapiens 29 <400> SEOUENCE: 3 30 cctcacatat ttcaaatcca tctcaaattc acattcacag atgtaagagc tgggaaagga 60 31 cggttttgac agggctgaac tgagctatgg tatgagtagc actcatcccc agaaagtctc 120 32 ttggtttgaa tttccgggaa aaggagctat agctgcaaaa atctgtttca caaatgtgct 180 33 aactataagc attttccaca gtgtttaata aaccatgcag ataagaaaat attattgaca 240 34 aacaaattaa taaaatgctc aaaataatct gatactaaat gcttgtagca tggcatgcaa 300 35 atcaccaaaa ataaatgtgc tatgcttcat ataaaatctc cagtaaggct gggtgtggtg 360 36 gctcacacct ataatcccaa cactctggga ggccgaggtg agagaactgc ttgaggccag 420 37 gagtttgaga ctagcctggc caacatagtg agacctcatc tctacaaaaa atcttaaaaa 480 38 tcagtgggac atggtggtgc acatctgtag ttctagctac ttgggagtct gaggcaggaa 540 39 gattgcttaa gcccaagagt ttgaggtccc tacactccag cctaagcgac agagggagac 600 40 cttgtctcta aataaataaa ttagttaatt gaatgtccag tcagttgata tatccaaatt 660 41 cttcccatgg taattttaaa aactttagtc ttaggagagt aaaagtcatg gacataagac 720 42 ttcttataaa caactcagcc taatgagaaa tagaccctgt atttaagtgt catttaagta 780 43 totatttott cattgatota ttoatttatt aactootgta acaatoattt goagacacot 840 44 actatgttga ggtagtataa actataaatt caacaagttt gataagggaa ataagagaga 900 45 ttgagtgaca gcttgaaggg gaggattctt tcaggcctgt gggaccgggt ggtggcatgg 960 46 agacattatt gtggacttga gggagttaat gtgacagtcc tcgtgtctcc agacactttc 1020 47 tototgttag ggaagcaaga tttotatooc cagagtatgt atgtgttatg totggactgc 1080 48 agtggcacag aactgtgttc aacgagtgac taccgctctg ctgtgtgccc tgggacttgg 1140 49 ggttaattga tcaatcattt ctatccagaa ggtaaccatg aggactgacg gaaccagtgt 1200 50 gtaccaagtg totgttaagt gtotggtoaa tggttatoca taaagotact gcatggcoat 1260 51 atgtaggaag aatacacacc gtgagcaaat ttttcccacg tgtaactctc acaacaaaat 1320

RAW SEQUENCE LISTING

DATE: 06/18/2001



PATENT APPLICATION: US/09/856,749 TIME: 16:20:37

Input Set : A:\Dc-120.app
Output Set: N:\CRF3\06182001\I856749.raw

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98 tttgacctgt gtatataaca agaacctttc tcaaatagga aagaaatgaa ttggagaaaa 4140 99 ccactgttta catggcagag tgtgtctcct tcgcacacat cttgtttgaa gttaatcatg 4200								
99 ccactgttta catggcagag tgtgtctcct tcgcacacat cttgtttgaa gttaatcatg 4200			-	_	_	-		
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \			_	_				
		\		-		-	_	

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/856,749

DATE: 06/18/2001 TIME: 16:20:37

Input Set : A:\Dc-120.app

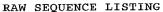
Output Set: N:\CRF3\06182001\I856749.raw

101 ctagtctatt catagctaat caagaggatg ttataaagca tgagtcagac acctctggct 4320 102 ttctggaagg gcaaggactc tatatataca gagggagctt cctagctggg atattggagc 4380 103 agcaagaggc tgggaagcca tcacttacct tgcactgaga aagaagacaa aggccagt 4438 105 <210> SEQ ID NO: 4 106 <211> LENGTH: 31 107 <212> TYPE: DNA 108 <213> ORGANISM: Artificial Sequence 110 <220> FEATURE: 111 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic 113 <400> SEQUENCE: 4 114 gtggaagett acacctataa teccaacaet e 31 116 <210> SEQ ID NO: 5 117 <211> LENGTH: 33 118 <212> TYPE: DNA 119 <213> ORGANISM: Artificial Sequence 121 <220> FEATURE: 122 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic 124 <400> SEQUENCE: 5 33 125 ctgcctggta ccctattgcg atagcaccat ggc 127 <210> SEQ ID NO: 6 128 <211> LENGTH: 35 129 <212> TYPE: DNA 130 <213> ORGANISM: Artificial Sequence 132 <220> FEATURE: 133 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic 135 <400> SEQUENCE: 6 35 136 aaataattag aaagatatga cttatctcaa atcaa 138 <210> SEQ ID NO: 7 139 <211> LENGTH: 36 140 <212> TYPE: DNA 141 <213> ORGANISM: Artificial Sequence 143 <220> FEATURE: 144 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic 146 <400> SEQUENCE: 7 36 147 aaataattag aaaggatatg acttatctca aatcaa 149 <210> SEQ ID NO: 8 150 <211> LENGTH: 51 151 <212> TYPE: DNA 152 <213> ORGANISM: Artificial Sequence 154 <220> FEATURE: 155 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic 157 <400> SEQUENCE: 8 158 ttcattqtta atcaaqaqqa tqttataaag catgagtcac accetcaget t 160 <210> SEQ ID NO: 9 161 <211> LENGTH: 20 162 <212> TYPE: DNA

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PATENT APPLICATION: US/09/856,749

DATE: 06/18/2001 TIME: 16:20:37

Input Set : A:\Dc-120.app

Output Set: N:\CRF3\06182001\1856749.raw

100 (400) DEQUERCE: 9	168	<400>	SEQUENCE:	9
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169 gttatgccac ttagatgagg

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- 171 <210> SEQ ID NO: 10
- 172 <211> LENGTH: 20
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- 174 <213> ORGANISM: Artificial Sequence
- 176 <220> FEATURE:
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- 179 <400> SEQUENCE: 10
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20

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/856,749

DATE: 06/18/2001 TIME: 16:20:39

Input Set : A:\Dc-120.app

Output Set: N:\CRF3\06182001\1856749.raw

L:2 M:270 C: Current Application Number differs, Replaced Current Application No

L:2 M:271 C: Current Filing Date differs, Replaced Current Filing Date

L:2 M:289 W: Identifier Missing or Out-Of-Order, <150> PRIOR APP NO

L:0 M:201 W: Mandatory field data missing, APPLICANT NAME L:0 M:201 W: Mandatory field data missing, TITLE INVENTION

L:0 M:201 W: Mandatory field data missing, FILE REFERENCE